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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 00786/368002 LIN 04/07/00 09/545,072 **EXAMINER** HM22/0511 KUBFLIK A KAREN L ELBING PH D ART UNIT CLARK & ELBING 10 176 FEDERAL STREET 1638 BOSTON MA 02110 DATE MAILED: 05/11/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

PTO-90C (Rev 11/00)

	Application No.	Applicant(s)	
. Office Action Summary	09/545,072	LIN ET AL.	
	Examiner	Art Unit	
	Anne Kubelik	1638	
The MAILING DATE of this communication	n annears on the cover she	et with the correspondence	e address
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iod for Reply  A SHORTENED STATUTORY PERIOD FOR F	REPLY IS SET TO EXPIR	E 1 MONTH(S) FROM	
A SHORTENED STATUTORY THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 - Extensions of time may be available under the provisions of 37 - after SIX (6) MONTHS from the mailing date of this communicated in the period for reply specified above is less than thirty (30) day if the period for reply is specified above, the maximum statutory if the period for reply within the set or extended period for reply will, be any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136 (a). In no event, nowers, tion. ys, a reply within the statutory minimu	m of thirty (30) days will be considere (6) MONTHS from the mailing date of	ed timely. If this communication. 33).
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3) Since this application is in condition fo closed in accordance with the practice	e under Ex parte Quayle, 1	935 C.D. 11, 453 O.G. 21	<b>.</b>
isposition of Claims	the address		
an the ab	plication.	tion.	
4a) Of the above claim(s) is/are	withdrawn from considera		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
:-/ara objected 10.			
7) ☐ Claim(s) is/are objected to 8) ☑ Claims 1-39 are subject to restriction	n and/or election requirem	enc.	
Application Paners			
- is a sheeted to by the	e Examiner.	er.	
9) The specification is objected to 1)  10) The drawing(s) filed on is/are	objected to by the Examination	oved b) disapproved.	
The proposed drawing correction file	d on	,,,,	
11) The proposed drawing 12) The oath or declaration is objected to	o by the Examilier.		
		11 0 0 5 440(a) (d) or (	f).
Priority under 35 U.S.C. § 119  13) ☐ Acknowledgment is made of a claim	for foreign priority under	35 U.S.C. § Tra(a)-(u) or (	••
* o\			
a) All b) Some c/ None on the priority	documents have been re	ceived.	
<ul><li>1. Certified copies of the priority</li><li>2. Certified copies of the priority</li></ul>	documents have been re	ceived in Application No.	
Coming of the certified copies	s of the priority documents	~ 17 2(a))	3 (40tio)(01 0.55)
application from the	an for a list of the certified	Cobies Hor received.	
* See the attached detailed Office acti	ion for domestic priority ur	der 35 U.S.C. § 119(e).	
* See the attached detailed Office action 14) Acknowledgement is made of a cla	aim for doffiestic priority and		
Attachment(s)		3) Interview Summary (PTO	-413) Paper No(s)
(070 803)		B) Interview Summary (PTO B) Notice of Informal Patent	Application (PTO-152)
Notice of References Cited (P10-692)	10	3) [ [ [40(106 0) 1111011112	
<ul> <li>15) Notice of References Cited (PTO-892)</li> <li>16) Notice of Draftsperson's Patent Drawing Reviet</li> <li>17) Information Disclosure Statement(s) (PTO-144)</li> </ul>	W IP (U-3-U)	O) Other:	

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## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-13 and 15-22, drawn to a nucleic acid encoding an SSE polypeptide and Agrobacteria and plants comprising that nucleic acid under the control of plant-I. expressible promoters, classified in class 800, subclass 281, for example.
- Claims 14 and 32, drawn to non-Agrobacterium bacterial cells comprising a nucleic acid encoding an SSE polypeptide and a method of producing an SSE II. polypeptide via gene expression ender the control of prokaryotic promoters, classified in class 435, subclass 71.2, for example.
  - Claims 23-26, drawn to an expression vector for antisense SSE RNA and plants comprising that expression vector, classified in class 800, subclass 286, for III. example.
  - Claims 27-31 and 33, drawn to an SSE polypeptide, classified in class 530, ĪV. subclass 370, for example.
  - Claims 34-35, drawn to an antibody against an SSE polypeptide, classified in V. class 530, subclass 387.1, for example.
  - Claim 36, drawn to a method of isolating an SSE gene via hybridization, VI. classified in class 435, subclass 6, for example.
  - Claims 37-39, drawn to a method of isolating an SSE gene via PCR, classified in VII. class 435, subclass 91.2, for example.

The inventions are distinct, each from the other, because:

Inventions I-III are unrelated to invention IV. Inventions are unrelated if it can be shown

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that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the different inventions have different modes of operation and different functions. The first group of inventions is distinct from invention IV because the former requires isolated DNA and methods for plant or bacterial transformation and regeneration not required by the latter, while the latter requires isolated proteins not required by the former. Furthermore, the protein of the invention IV could be made by a process other than the expression of the gene of invention I, such as chemical synthesis or purification from the natural source, and the DNA of invention I may be used for processes other than the production of protein, such as a nucleic acid hybridization assay.

Inventions I, II and III are unrelated to each other. Invention III requires antisense constructs and antisense RNA expression, not required by inventions I and II, which require sense constructs not required by invention III. Inventions I and III require plant-expressible promoters and methods of plant transformation and regeneration not required by invention II, and invention II requires prokaryotic-expressible promoters and methods of fermentation and bacterial cell culture not required by inventions I and III.

The protein of invention IV is unrelated to the antibody of invention V. They are distinct inventions because they are physically and functionally distinct chemical entities, and because the protein can be used in another and materially different process from the use for production of the antibody, such as isolation of proteins that interact with the SSE polypeptide *in vivo*.

Inventions I, VI and VII are unrelated to each other. The different inventions have different modes of operation, different functions and different effects. The method of invention

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VI of obtaining a nucleic acid by hybridization requires DNA probing techniques not required by inventions I or VI. Invention VI requires primers and DNA amplification methods not required by inventions I or VI. Lastly, invention I requires full-length SSE genes and methods of plant transformation and regeneration not required by inventions VI or VII.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, fields of search, and classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne R. Kubelik, whose telephone number is (703) 308-5059. The examiner can normally be reached on Monday through Friday, 8:15 am - 4:45 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Hutzell, can be reached on (703) 308-4310. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Anne R. Kubelik, Ph.D. May 7, 2001

DAVID T. FOX PRIMARY EXAMINER

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